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Test results:

Note:

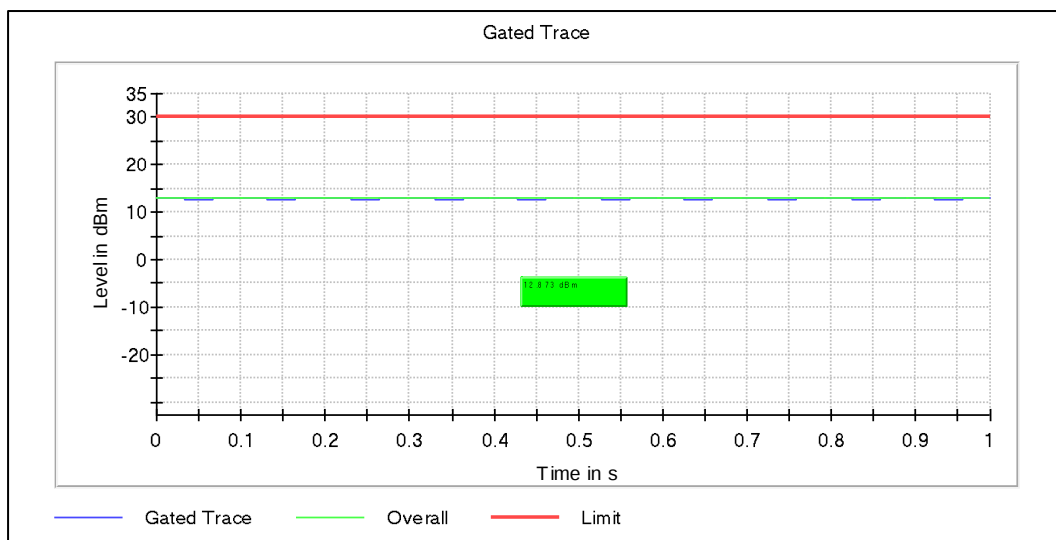
1. All the losses are included during measurement and final values are mentioned in the test report.
2. This product does not support additional beamforming gain / directional gain, it uses single antenna and hence Directional gain of the single antenna is 4.54 dBi.

Bandwidth (MHz)	Mode	Data rate	Measured Frequency (MHz)	Measured Gated RMS Power (dBm)	FCC Limit (dBm)	Margin (dB)
20	b	1Mbps	2412	12.87	30.00	-17.13
			2437	13.63	30.00	-16.37
			2462	13.69	30.00	-16.31
	g	6Mbps	2412	11.91	30.00	-18.09
			2437	15.55	30.00	-14.45
			2462	11.01	30.00	-18.99
	n-20	MCS0	2412	11.40	30.00	-18.60
			2437	15.36	30.00	-14.64
			2462	11.03	30.00	-18.97
40	n-40	MCS0	2422	12.06	30.00	-17.94
			2437	15.25	30.00	-14.75
			2452	11.70	30.00	-18.30

Test Plots:

Bandwidth: 20MHz

Data Rate: 1Mbps

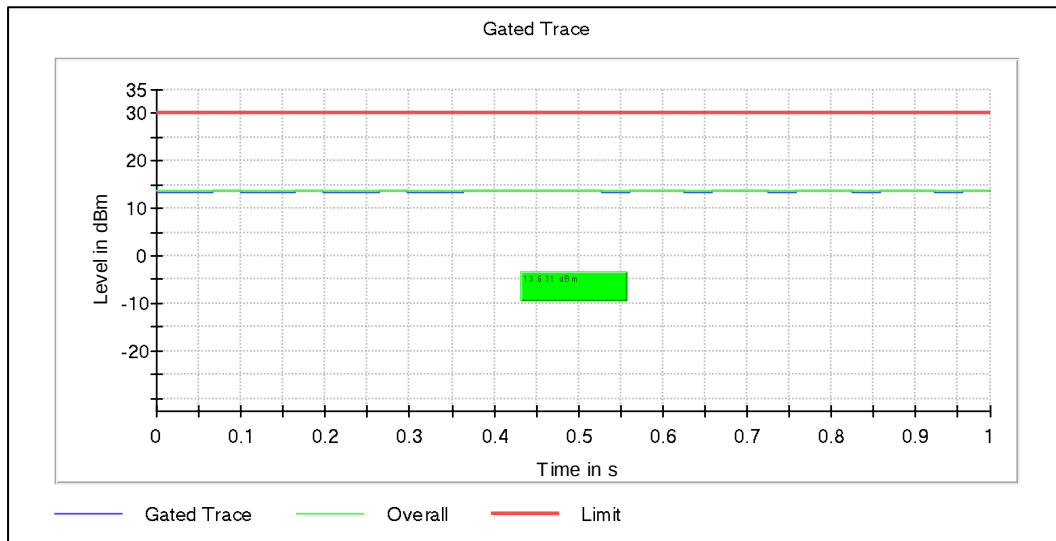


Channel Frequency: 2412MHz

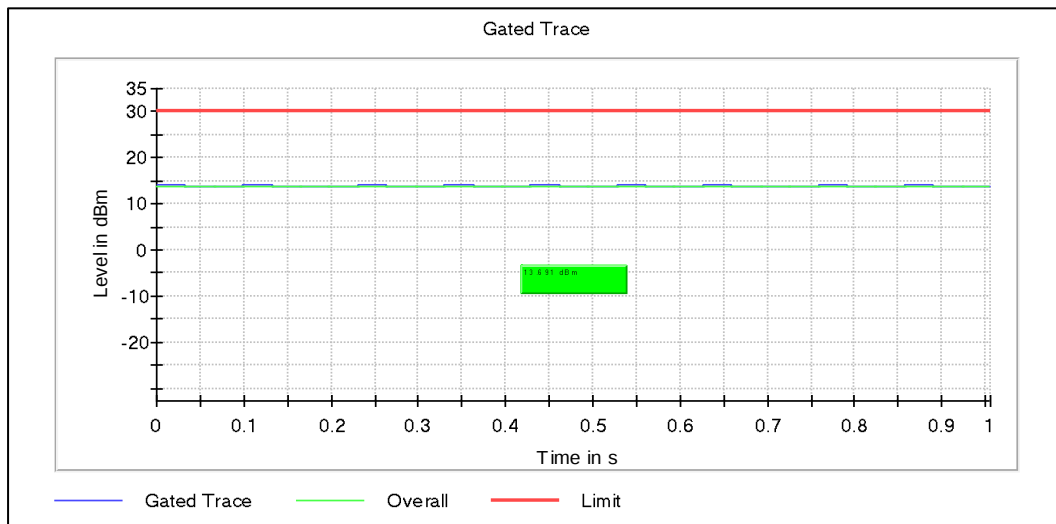
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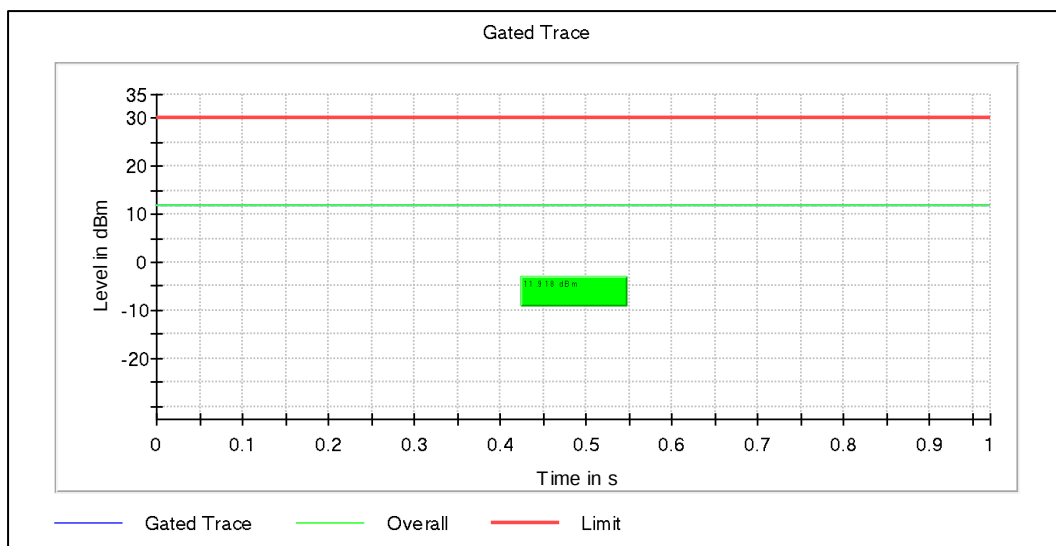


Channel Frequency: 2437MHz

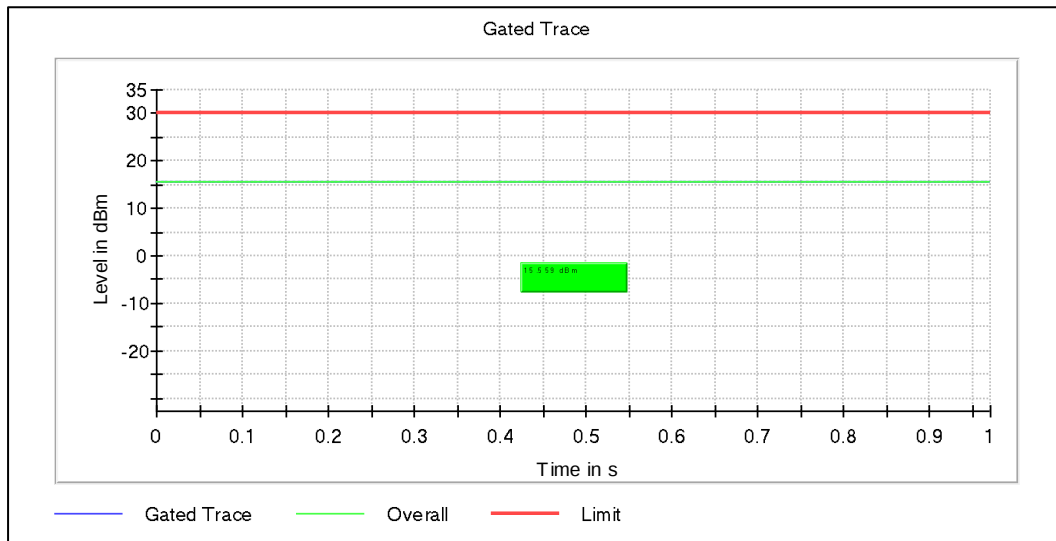


Channel Frequency: 2462MHz

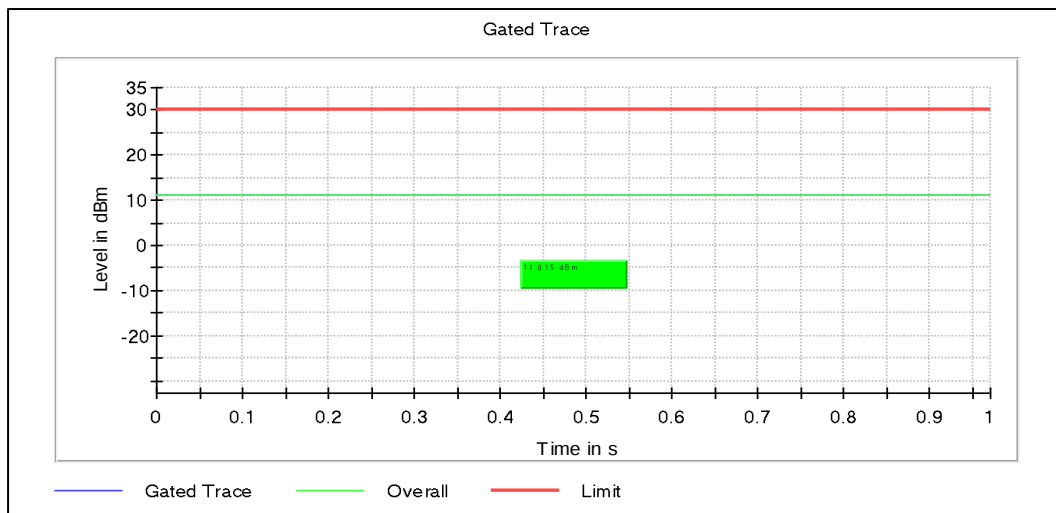
Data Rate: 6Mbps



Channel Frequency: 2412MHz

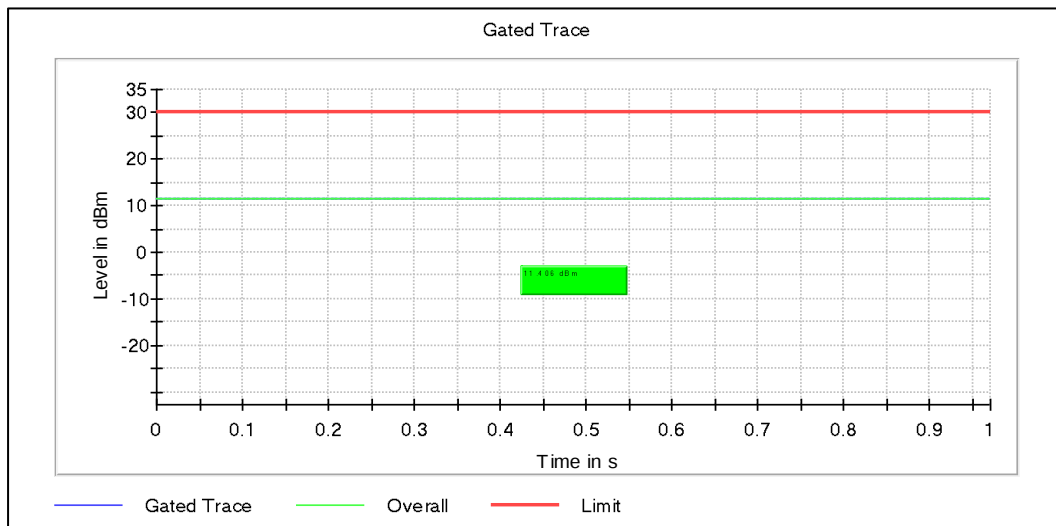


Channel Frequency: 2437MHz



Channel Frequency: 2462MHz

Data Rate: HT20_MCS0

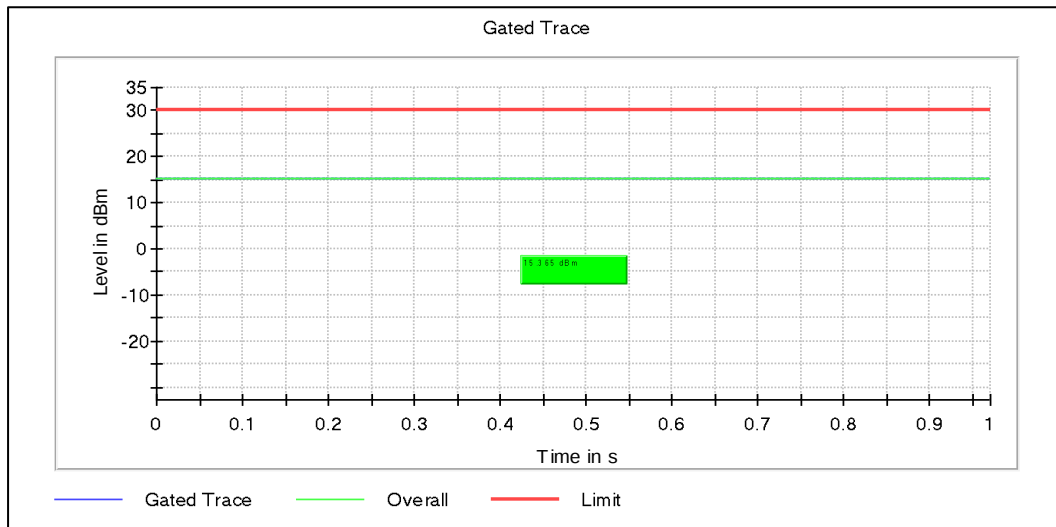


Channel Frequency: 2412MHz

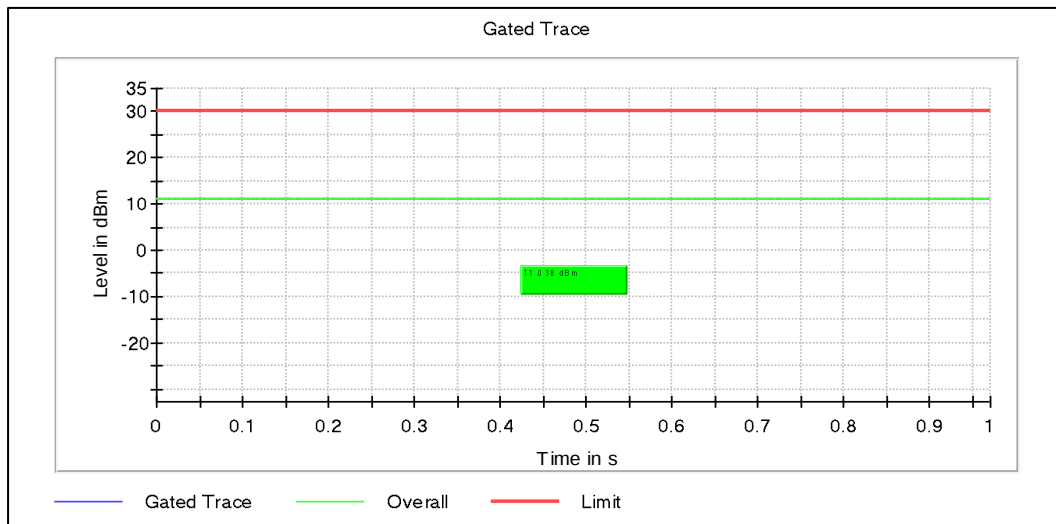
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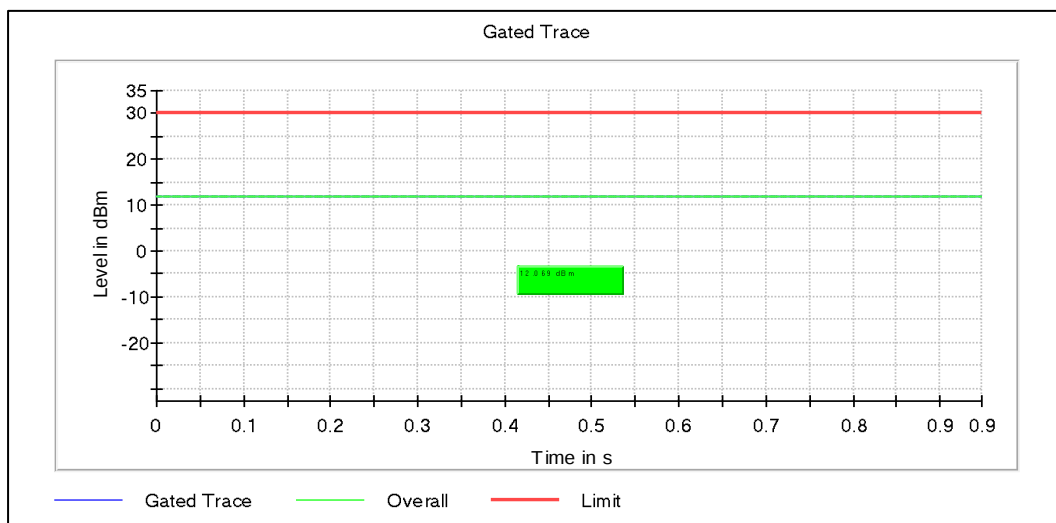


Channel Frequency: 2437MHz



Channel Frequency: 2462MHz

Data Rate: HT40_MCS0



Channel Frequency: 2422MHz

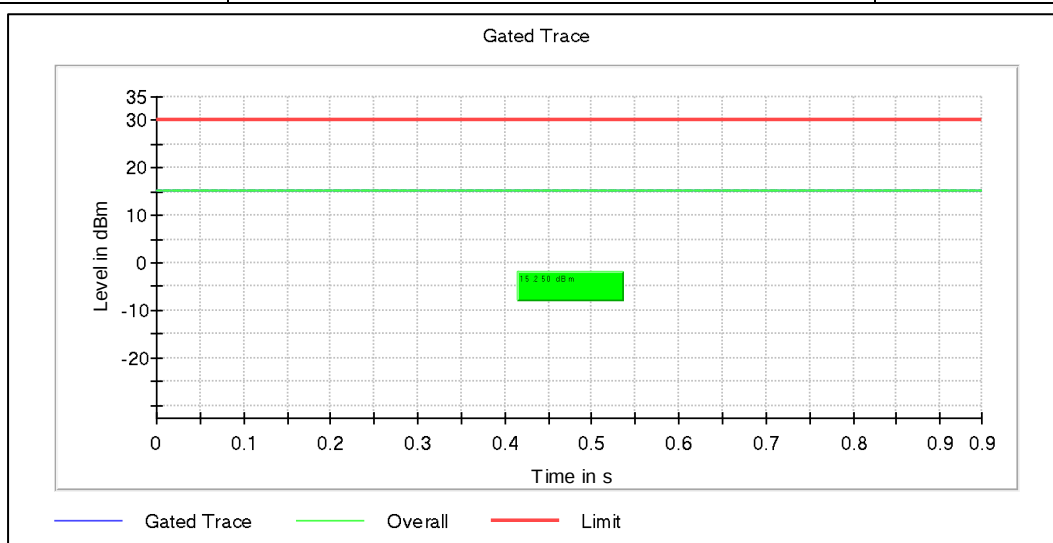
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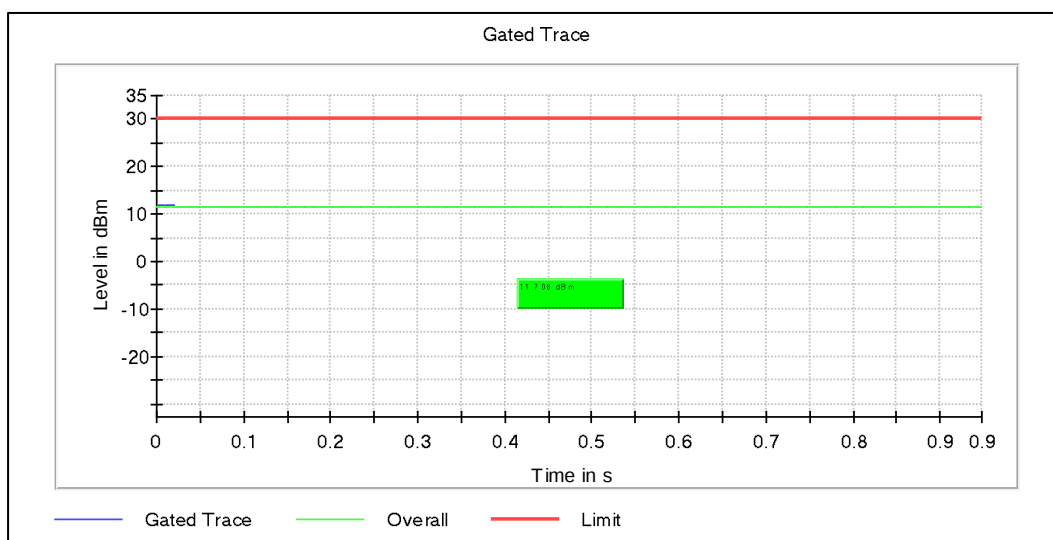
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Channel Frequency: 2437MHz



Channel Frequency: 2452MHz

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8.2 Spurious Radiated Emissions & Restricted Bands of Operation

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205)
Test Method	ANSI C63.10
Measurement Location	Semi Anechoic Chamber 9kHz - 1 GHz Fully Anechoic Chamber 1 GHz - 40GHz
Measurement Bandwidth	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Detector	Refer remarks below
Measuring Distance	3 m
Requirement	As per the limits mentioned in the below table
Test setup	Refer TEST METHODOLOGY

Table 13: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300-meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

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Test results:

Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details.

PDQ 6EWS W/O keypad

Test results for frequency range 9kHz – 30MHz

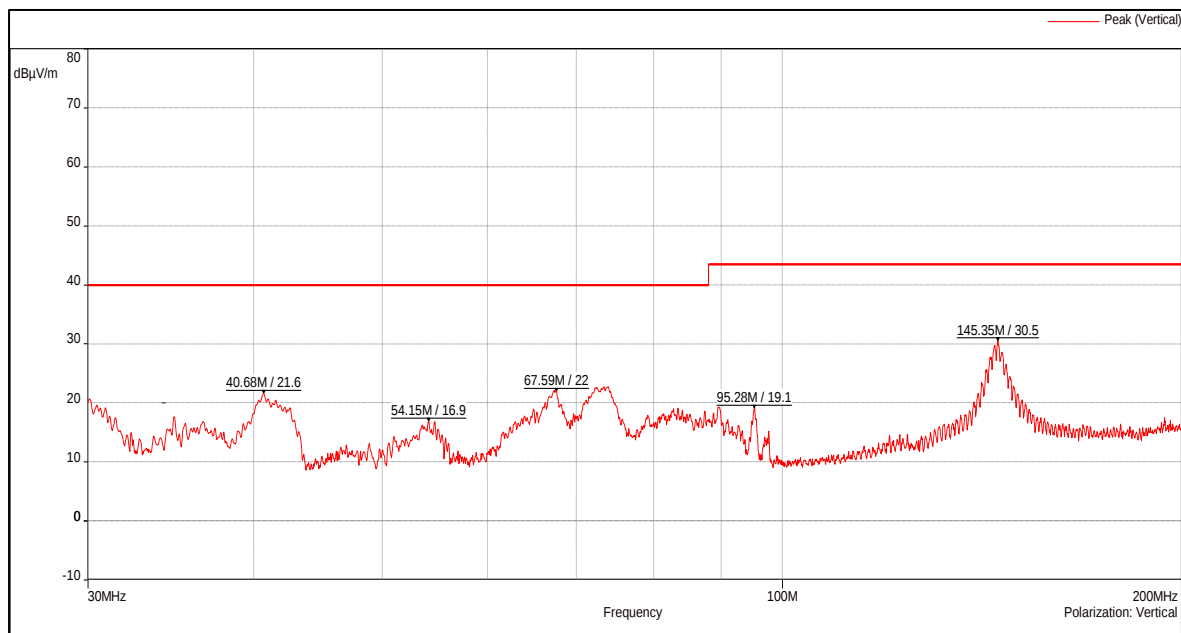
No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported.

Table 14: Test results for frequency range 30MHz – 200MHz

Antenna Polarization	Measured Frequency (MHz)	Measured emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	40.68	21.60	40.00	-18.40
	54.15	16.90	40.00	-23.10
	67.59	22.00	40.00	-18.00
	95.28	19.10	43.50	-24.40
	145.35	30.50	43.50	-13.00
Horizontal	36.69	34.90	40.00	-5.10
	50.97	27.80	40.00	-12.20
	58.71	24.70	40.00	-15.30
	75.18	20.60	40.00	-19.40
	117.6	16.80	43.50	-26.70
	145.35	34.30	43.50	-9.20

Test Plots:

Frequency Range 30MHz-200MHz_Vertical Polarization



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Frequency Range 30MHz-200MHz_Horizontal Polarization

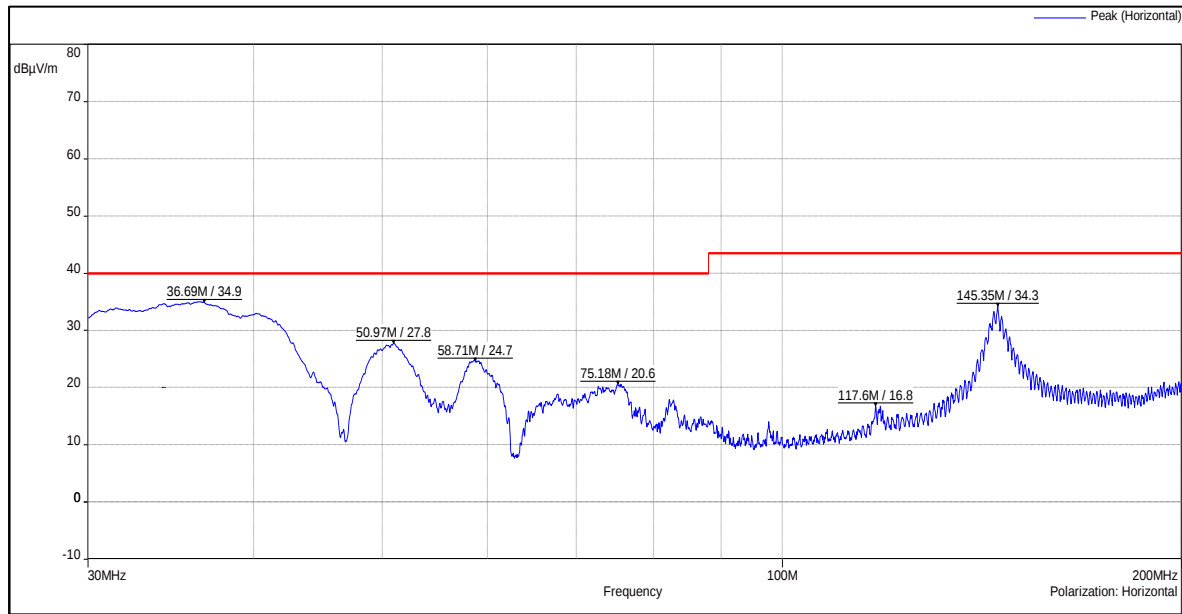
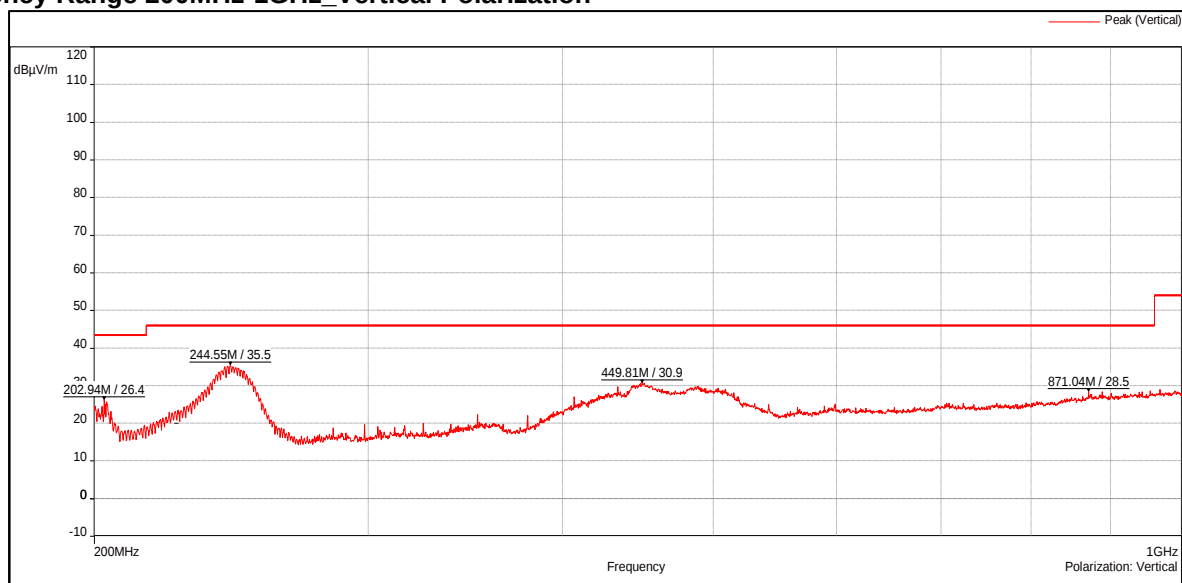


Table 15: Test results for frequency range 200MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	202.94	26.40	43.50	-17.10
	244.55	35.50	46.00	-10.50
	449.81	30.90	46.00	-15.10
	871.04	28.50	46.00	-17.50
Horizontal	201.68	26.10	43.50	-17.40
	244.13	40.00	46.00	-6.00
	454.67	27.70	46.00	-18.30
	698.27	30.30	46.00	-15.70

Test Plots:

Frequency Range 200MHz-1GHz_Vertical Polarization

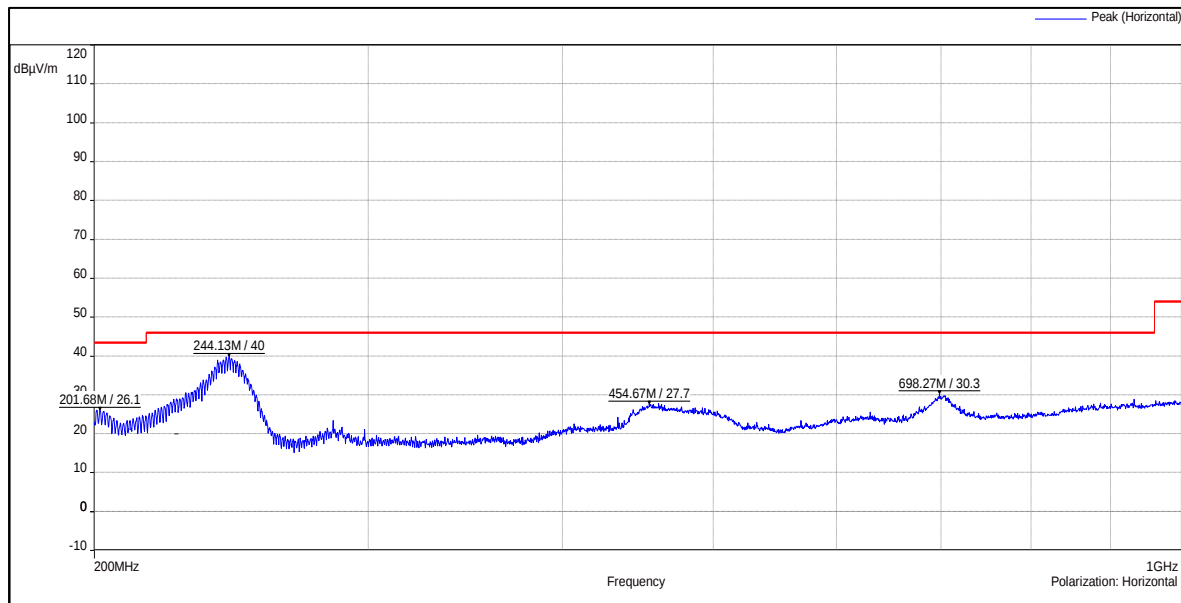


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Frequency Range 200MHz-1GHz_Horizontal Polarization



PDQ 6EWS With keypad

Test results for frequency range 9 kHz – 30 MHz

No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported.

Table 16: Test results for frequency range 30MHz – 200MHz

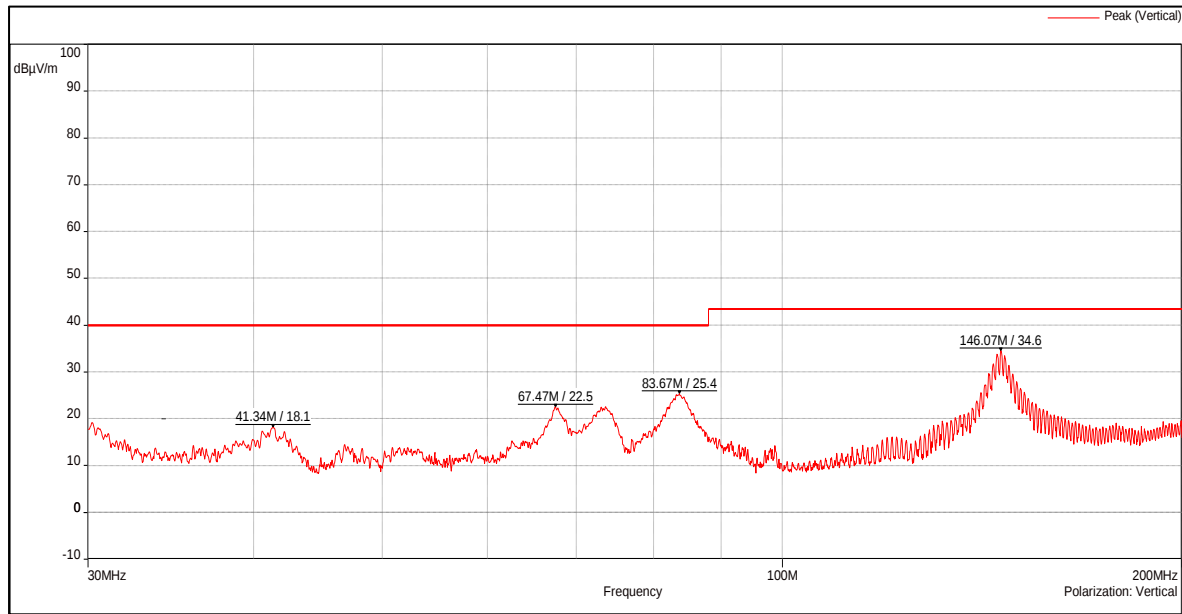
Antenna Polarization	Measured Frequency (MHz)	Measured emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	41.34	18.10	40.00	-21.90
	67.47	22.50	40.00	-17.50
	83.67	25.40	40.00	-14.60
	146.07	34.60	43.50	-8.90
Horizontal	51.18	16.70	40.00	-23.30
	77.64	23.90	40.00	-16.10
	144.33	21.80	43.50	-21.70
	157.17	28.40	43.50	-15.10

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Test Plots:
Frequency Range 30MHz-200MHz_Vertical Polarization



Frequency Range 30MHz-200MHz_Horizontal Polarization

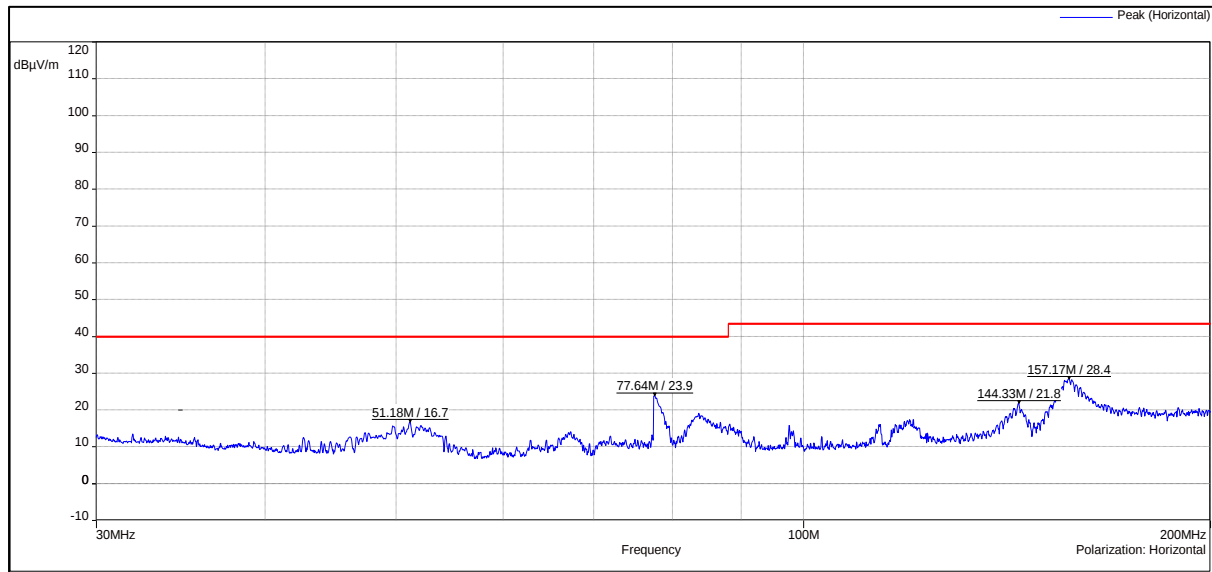


Table 17: Test results for frequency range 200MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	239.99	24.40	46.00	-21.60
	349.28	19.30	46.00	-26.70
	454.04	33.80	46.00	-12.20
	915.71	28.00	46.00	-18.00
Horizontal	210.77	29.10	43.50	-14.40
	450.38	29.70	46.00	-16.30
	725.12	35.00	46.00	-11.00

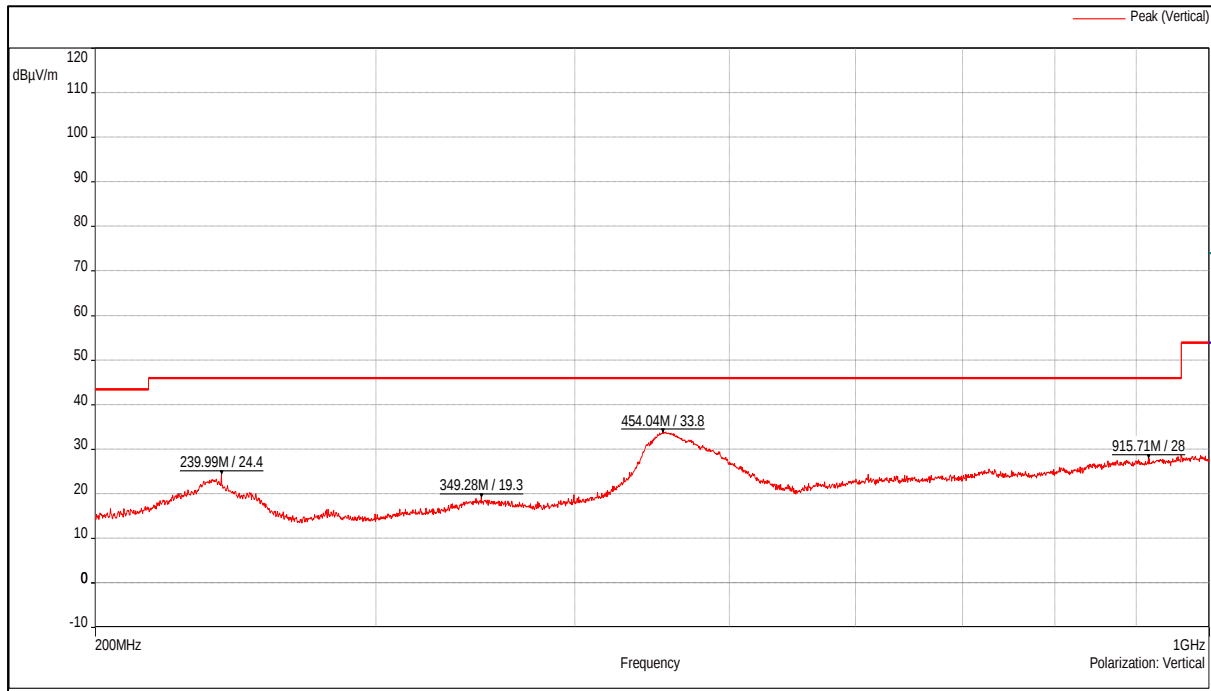
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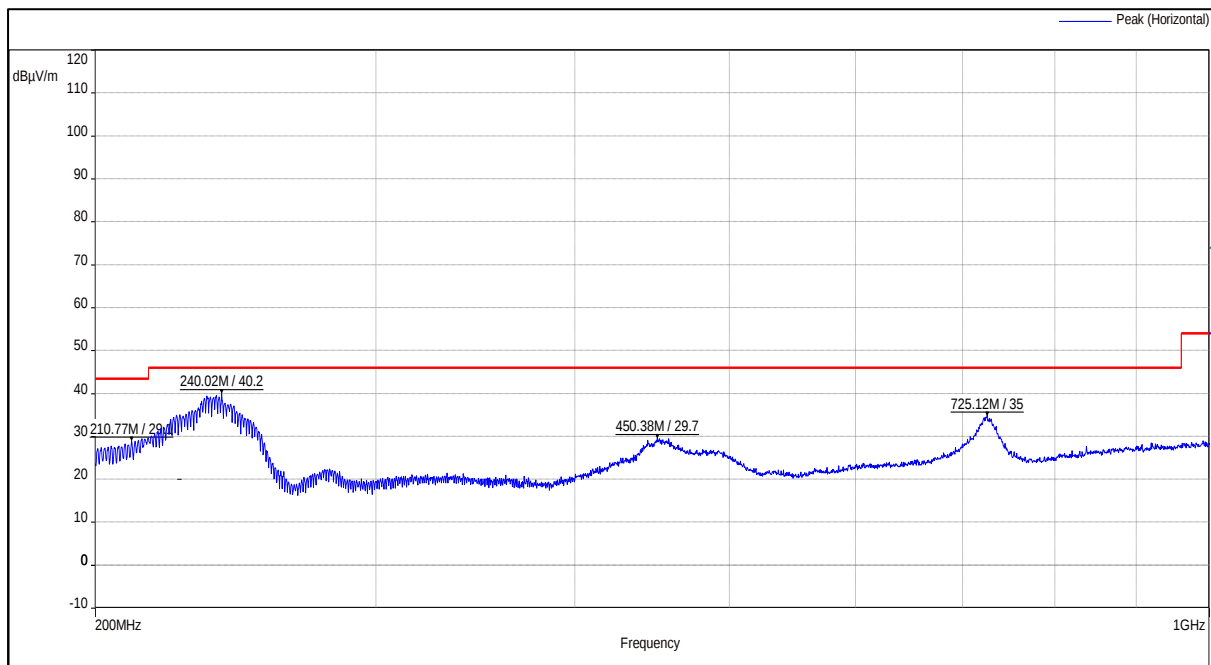
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Test Plots:

Frequency Range 200MHz-1GHz_Vertical Polarization



Frequency Range 200MHz-1GHz_Horizontal Polarization



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Test Results for above 1GHz:

Modulation: 802.11b

Data rate: 1Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	2412(Pk)	Vertical	101.72	-	-
	2412(Av)		93.87	-	-
	2390(Pk)		54.22	74.00*	-19.78
	2390(Av)		37.84	54.00*	-16.16
	4824(Pk)		56.34	74.00	-17.66
	4824(Av)		51.03	54.00	-2.97
	7236(Pk)		52.08	74.00	-21.92
	7236(Av)		41.75	54.00	-12.25
	2412(Pk)	Horizontal	105.51	-	-
	2412(Av)		97.57	-	-
	2390(Pk)		53.98	74.00*	-20.02
	2390(Av)		38.65	54.00*	-15.35
	4824(Pk)		58.91	74.00	-15.09
	4824(Av)		53.38	54.00	-0.62
	7236(Pk)		41.36	74.00	-32.64
	7236(Av)		52.03	54.00	-1.97
2437	2437(Pk)	Vertical	101.36	-	-
	2437(Av)		93.42	-	-
	4874(Pk)		56.91	74.00	-17.09
	4874(Av)		51.91	54.00	-2.09
	7311(Pk)		48.63	74.00	-25.37
	7311(Av)		37.64	54.00	-16.36
	2437(Pk)	Horizontal	104.53	-	-
	2437(Av)		96.57	-	-
	4874(Pk)		58.15	74.00	-15.85
	4874(Av)		53.09	54.00	-0.91
	7311(Pk)		53.03	74.00	-20.97
	7311(Av)		43.46	54.00	-10.54
2462	2462(Pk)	Vertical	103.44	-	-
	2462(Av)		95.47	-	-
	2483.5(Pk)		53.76	74.00*	-20.24
	2483.5(Av)		37.03	54.00*	-16.97
	4924(Pk)		56.76	74.00	-17.24
	4924(Av)		51.80	54.00	-2.20
	7386(Pk)		48.71	74.00	-25.29
	7386(Av)		36.77	54.00	-17.23
	2462(Pk)	Horizontal	104.84	-	-
	2462(Av)		96.84	-	-
	2483.5(Pk)		55.68	74.00*	-18.32
	2483.5(Av)		38.05	54.00*	-15.95
	4924(Pk)		55.88	74.00	-18.12
	4924(Av)		50.59	54.00	-3.41
	7386(Pk)		52.01	74.00	-21.99
	7386(Av)		41.94	54.00	-12.06

_ → Fundamental Frequency

*→ Restricted Band edges

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11g

Data Rate: 6Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	2412(Pk)	Vertical	98.65	-	-
	2412(Av)		89.69	-	-
	2390(Pk)		66.10	74.00*	-7.90
	2390(Av)		44.46	54.00*	-9.54
	4824(Pk)		58.93	74.00	-15.07
	4824(Av)		43.80	54.00	-10.20
	7236(Pk)		50.29	74.00	-23.71
	7236(Av)		36.76	54.00	-17.24
	2412(Pk)	Horizontal	103.13	-	-
	2412(Av)		92.89	-	-
	2390(Pk)		67.32	74.00*	-6.68
	2390(Av)		45.59	54.00*	-8.41
	4824(Pk)		64.11	74.00	-9.89
	4824(Av)		49.23	54.00	-4.77
	7236(Pk)		55.74	74.00	-18.26
	7236(Av)		39.42	54.00	-14.58
2437	2437(Pk)	Vertical	101.27	-	-
	2437(Av)		91.49	-	-
	4874(Pk)		63.54	74.00	-10.46
	4874(Av)		48.95	54.00	-5.05
	7311(Pk)		55.20	74.00	-18.80
	7311(Av)		41.51	54.00	-12.49
	2437(Pk)	Horizontal	103.74	-	-
	2437(Av)		93.95	-	-
	4874(Pk)		64.99	74.00	-9.01
	4874(Av)		50.33	54.00	-3.67
	7311(Pk)		57.39	74.00	-16.61
	7311(Av)		44.12	54.00	-9.88
2462	2462(Pk)	Vertical	97.37	-	-
	2462(Av)		87.55	-	-
	2483.5(Pk)		67.00	74.00*	-7.00
	2483.5(Av)		47.19	54.00*	-6.81
	4924(Pk)		56.13	74.00	-17.87
	4924(Av)		41.55	54.00	-12.45
	7386(Pk)		48.07	74.00	-25.93
	7386(Av)		35.72	54.00	-18.28
	2462(Pk)	Horizontal	100.62	-	-
	2462(Av)		90.95	-	-
	2483.5(Pk)		68.53	74.00*	-5.47
	2483.5(Av)		46.91	54.00*	-7.09
	4924(Pk)		47.80	74.00	-26.20
	4924(Av)		33.08	54.00	-20.92
	7386(Pk)		46.77	74.00	-27.23
	7386(Av)		35.38	54.00	-18.62

_ → Fundamental Frequency

*→ Restricted Band edges

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n-20MHz

Data Rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	2412(Pk)	Vertical	101.09	-	-
	2412(Av)		91.34	-	-
	2390(Pk)		65.61	74.00*	-8.39
	2390(Av)		46.35	54.00*	-7.65
	4824(Pk)		61.31	74.00	-12.69
	4824(Av)		45.27	54.00	-8.73
	7236(Pk)		51.49	74.00	-22.51
	7236(Av)		37.28	54.00	-16.72
	2412(Pk)	Horizontal	101.42	-	-
	2412(Av)		91.68	-	-
	2390(Pk)		63.61	74.00*	-10.39
	2390(Av)		44.72	54.00*	-9.28
	4824(Pk)		66.64	74.00	-7.36
	4824(Av)		51.25	54.00	-2.75
	7236(Pk)		54.77	74.00	-19.23
	7236(Av)		40.81	54.00	-13.19
2437	2437(Pk)	Vertical	103.00	-	-
	2437(Av)		93.14	-	-
	4874(Pk)		64.06	74.00	-9.94
	4874(Av)		50.17	54.00	-3.83
	7311(Pk)		50.27	74.00	-23.73
	7311(Av)		37.63	54.00	-16.37
	2437(Pk)	Horizontal	103.65	-	-
	2437(Av)		94.29	-	-
	4874(Pk)		66.59	74.00	-7.41
	4874(Av)		52.98	54.00	-1.02
	7311(Pk)		56.68	74.00	-17.32
	7311(Av)		43.61	54.00	-10.39
2462	2462(Pk)	Vertical	99.51	-	-
	2462(Av)		89.75	-	-
	2483.5(Pk)		64.62	74.00*	-9.38
	2483.5(Av)		44.38	54.00*	-9.62
	4924(Pk)		54.61	74.00	-19.39
	4924(Av)		39.05	54.00	-14.95
	7386(Pk)		48.68	74.00	-25.32
	7386(Av)		36.10	54.00	-17.90
	2462(Pk)	Horizontal	101.31	-	-
	2462(Av)		91.53	-	-
	2483.5(Pk)		66.87	74.00*	-7.13
	2483.5(Av)		46.47	54.00*	-7.53
	4924(Pk)		54.50	74.00	-19.50
	4924(Av)		39.63	54.00	-14.37
	7386(Pk)		48.00	74.00	-26.00
	7386(Av)		35.92	54.00	-18.08

_ → Fundamental Frequency

*→ Restricted Band edges

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n-40MHz

Data Rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2422	2422(Pk)	Vertical	98.14	-	-
	2422(Av)		88.35	-	-
	2390(Pk)		70.67	74.00*	-3.33
	2390(Av)		50.48	54.00*	-3.52
	4844(Pk)		57.19	74.00	-16.81
	4844(Av)		42.59	54.00	-11.41
	7266(Pk)		50.41	74.00	-23.59
	7266(Av)		36.42	54.00	-17.58
	2422(Pk)	Horizontal	99.41	-	-
	2422(Av)		89.20	-	-
	2390(Pk)		71.83	74.00*	-2.17
	2390(Av)		52.14	54.00*	-1.86
	4844(Pk)		64.26	74.00	-9.74
	4844(Av)		49.54	54.00	-4.46
	7266(Pk)		54.63	74.00	-19.37
	7266(Av)		40.35	54.00	-13.65
2437	2437(Pk)	Vertical	99.98	-	-
	2437(Av)		90.32	-	-
	4874(Pk)		58.52	74.00	-15.48
	4874(Av)		44.80	54.00	-9.20
	7311(Pk)		50.17	74.00	-23.83
	7311(Av)		37.54	54.00	-16.46
	2437(Pk)	Horizontal	101.50	-	-
	2437(Av)		91.13	-	-
	4874(Pk)		61.40	74.00	-12.60
	4874(Av)		47.13	54.00	-6.87
	7311(Pk)		56.22	74.00	-17.78
	7311(Av)		43.25	54.00	-10.75
2452	2452(Pk)	Vertical	97.21	-	-
	2452(Av)		87.17	-	-
	2483.5(Pk)		69.18	74.00*	-4.82
	2483.5(Av)		51.06	54.00*	-2.94
	4904(Pk)		54.00	74.00	-20.00
	4904(Av)		39.21	54.00	-14.79
	7356(Pk)		47.32	74.00	-26.68
	7356(Av)		36.04	54.00	-17.96
	2452(Pk)	Horizontal	98.69	-	-
	2452(Av)		88.88	-	-
	2483.5(Pk)		70.67	74.00*	-3.33
	2483.5(Av)		52.25	54.00*	-1.75
	4904(Pk)		52.90	74.00	-21.10
	4904(Av)		37.99	54.00	-16.01
	7356(Pk)		48.75	74.00	-25.25
	7356(Av)		36.55	54.00	-17.45

_ → Fundamental Frequency

*→ Restricted Band edges

Pk: Peak Detector; Av: Average Detector

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Test Report No.:

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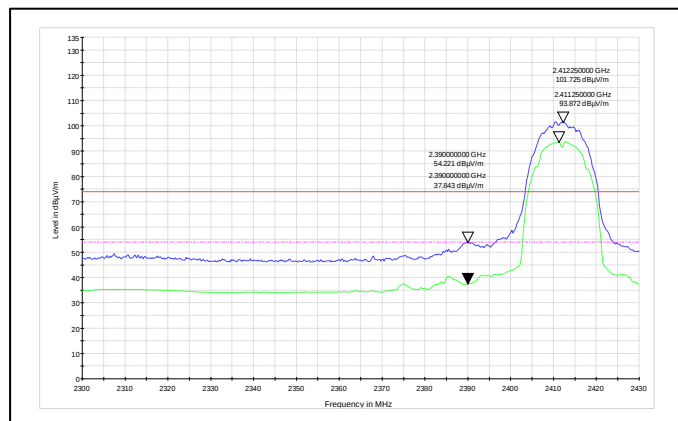
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Test Plots:

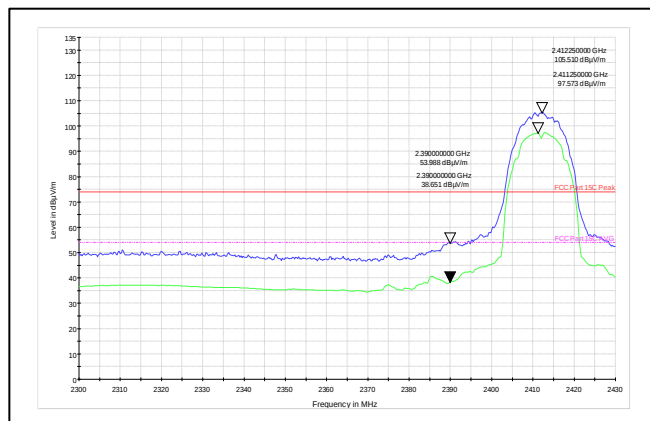
Restricted Bands of Operation:

Modulation: 802.11b

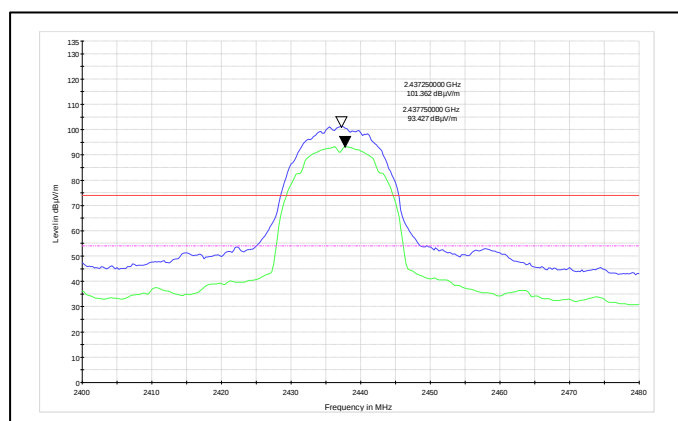
Data Rate: 1Mbps



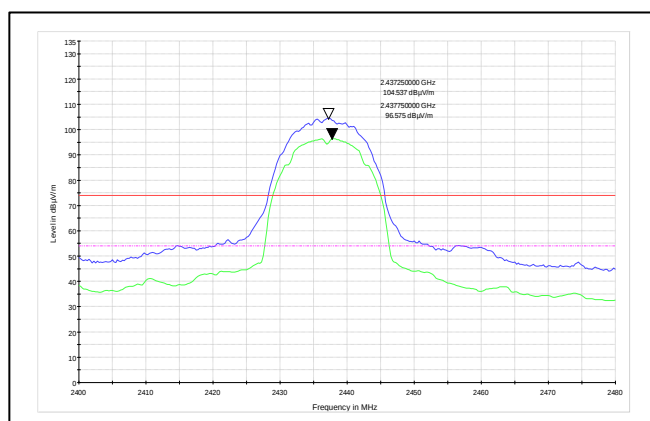
Channel Frequency: 2412MHz Polarization: Vertical



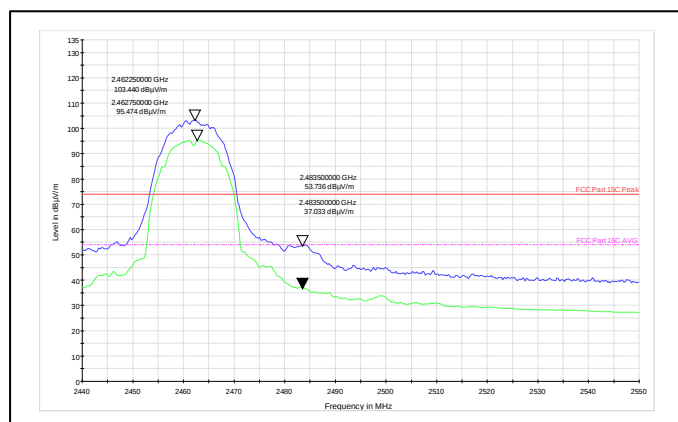
Channel Frequency: 2412MHz Polarization: Horizontal



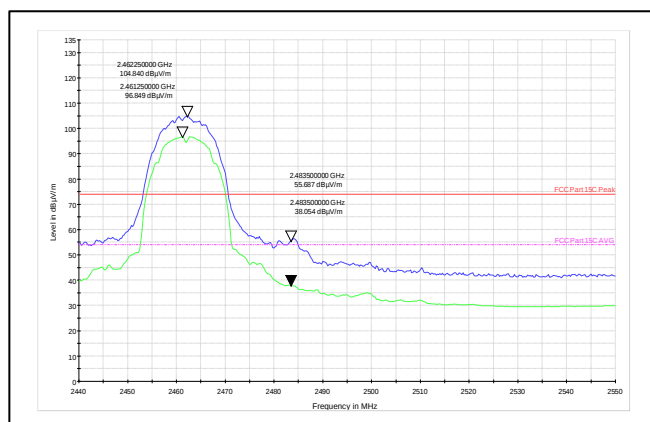
Channel Frequency: 2437MHz Polarization: Vertical



Channel Frequency: 2437MHz Polarization: Horizontal



Channel Frequency: 2462MHz Polarization: Vertical



Channel Frequency: 2462MHz Polarization: Horizontal

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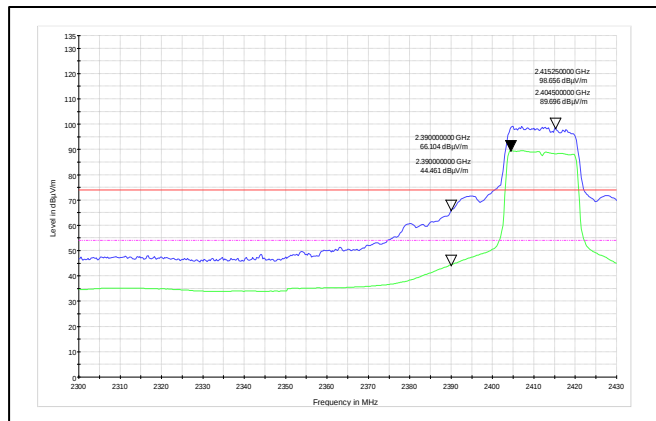
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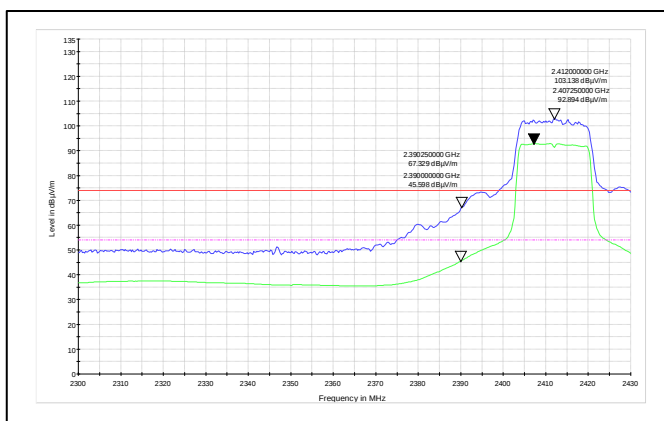
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Modulation: 802.11g

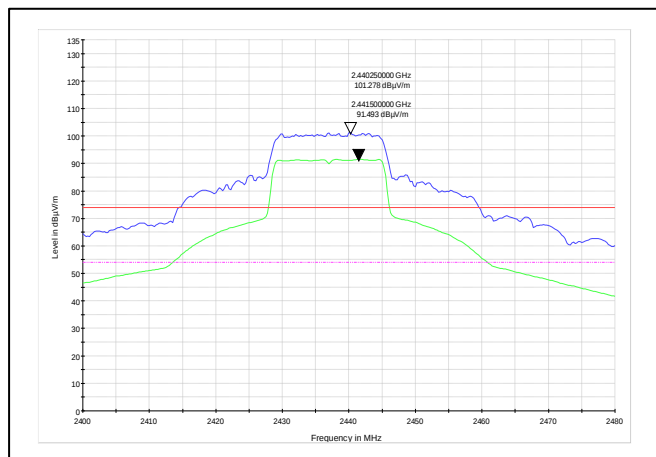
Data Rate: 6Mbps



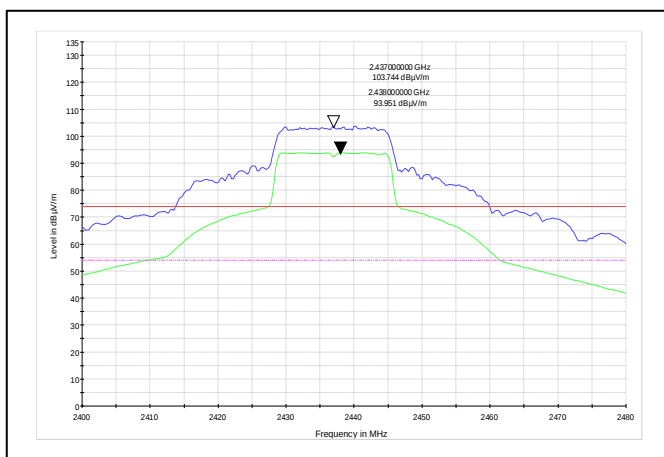
Channel Frequency: 2412MHz Polarization: Vertical



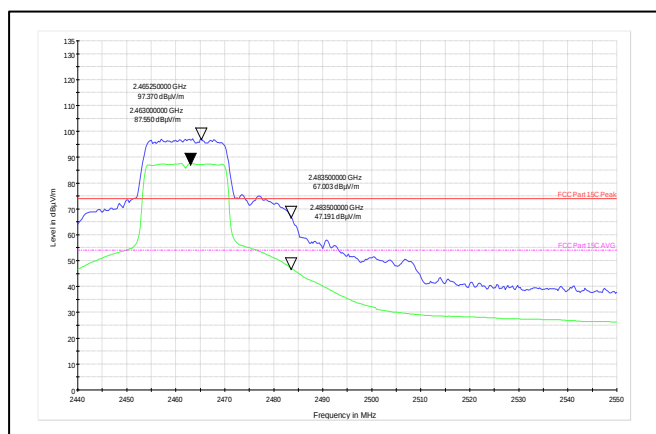
Channel Frequency: 2412MHz Polarization: Horizontal



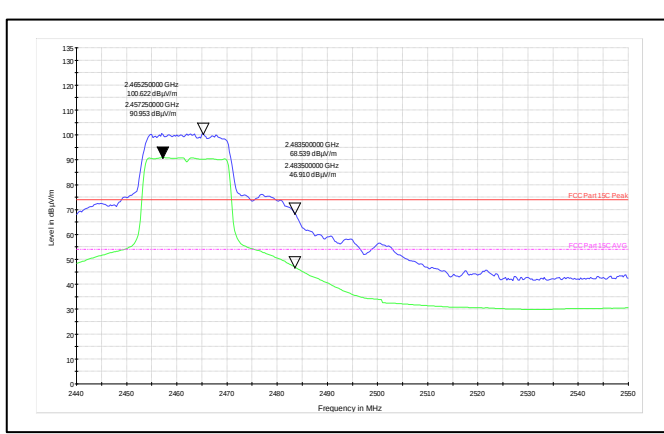
Channel Frequency: 2437MHz Polarization: Vertical



Channel Frequency: 2437MHz Polarization: Horizontal



Channel Frequency: 2462MHz Polarization: Vertical



Channel Frequency: 2462MHz Polarization: Horizontal

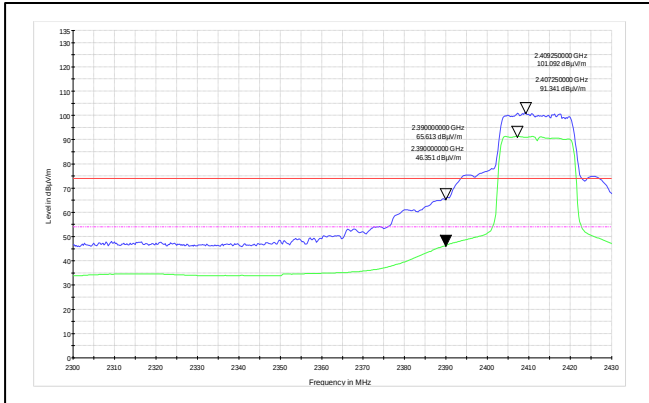
Prüfbericht - Nr.:
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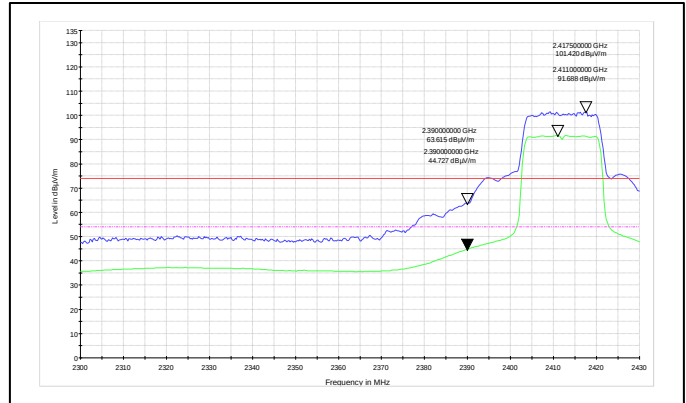
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Modulation: 802.11n-20MHz

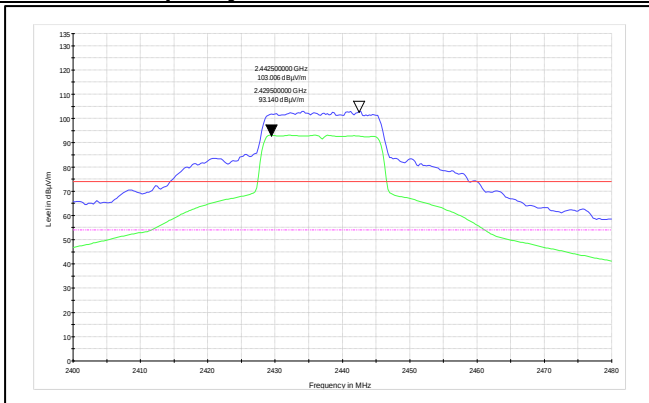
Data Rate: MCS0



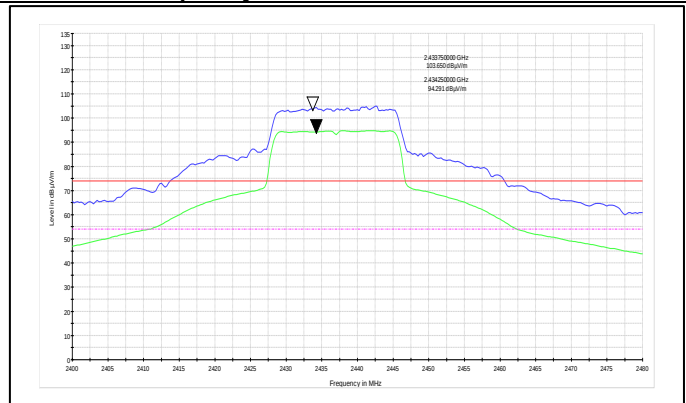
Channel Frequency: 2412MHz Polarization: Vertical



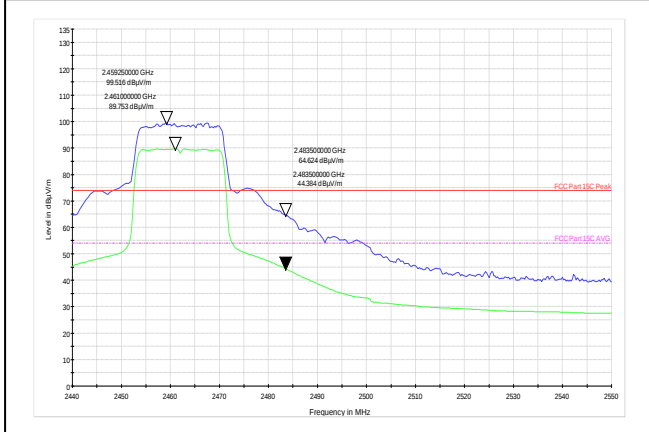
Channel Frequency: 2412MHz Polarization: Horizontal



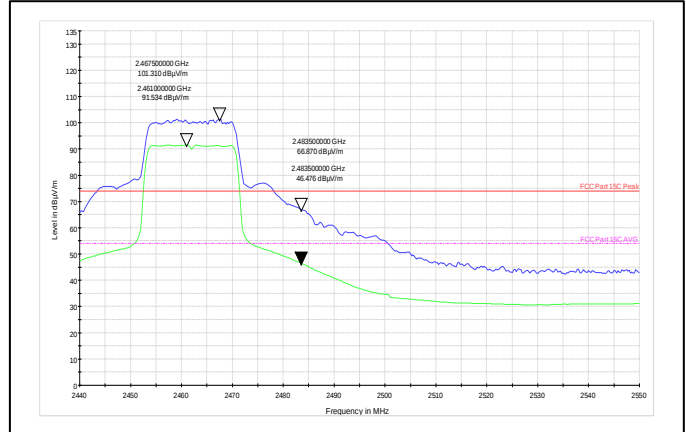
Channel Frequency: 2437MHz Polarization: Vertical



Channel Frequency: 2437MHz Polarization: Horizontal



Channel Frequency: 2462MHz Polarization: Vertical



Channel Frequency: 2462MHz Polarization: Horizontal

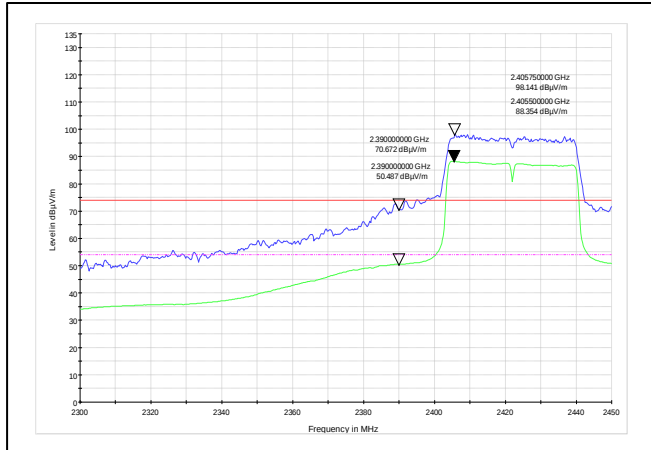
Prüfbericht - Nr.:
Test Report No.:

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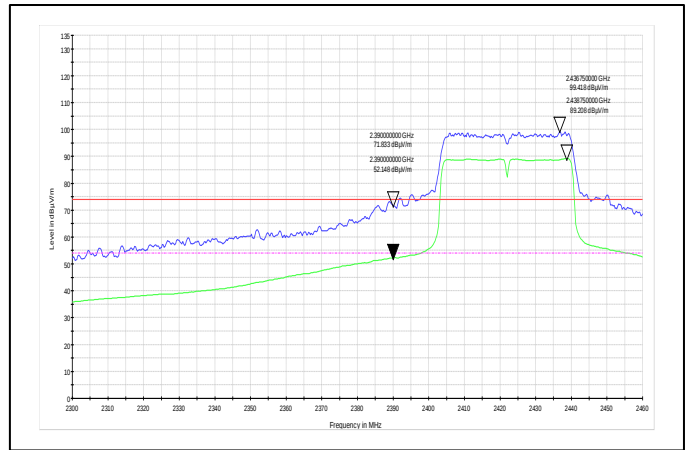
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Modulation: 802.11n-40MHz

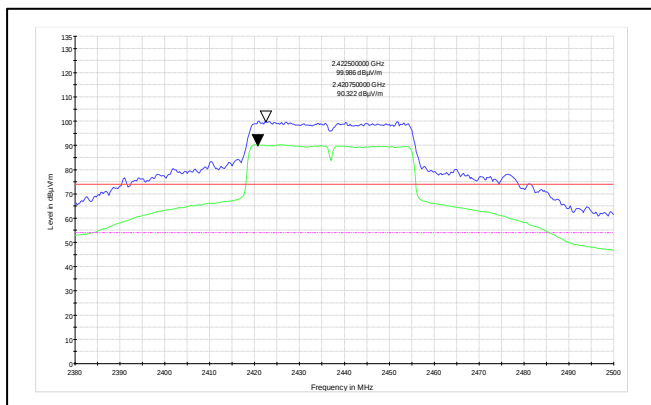
Data Rate: n-40MHz



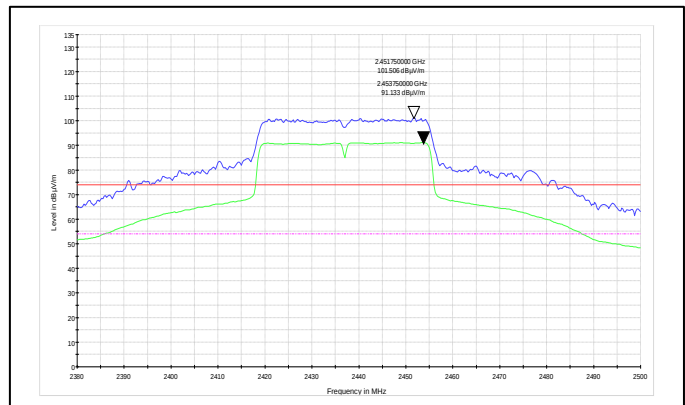
Channel Frequency: 2422MHz Polarization: Vertical



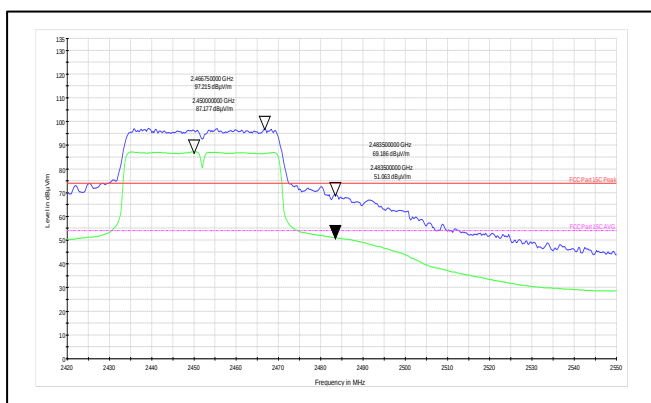
Channel Frequency: 2422MHz Polarization: Horizontal



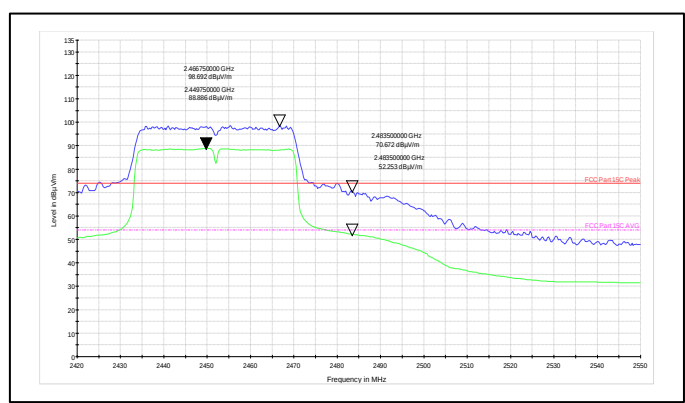
Channel Frequency: 2437MHz Polarization: Vertical



Channel Frequency: 2437MHz Polarization: Horizontal



Channel Frequency: 2452MHz Polarization: Vertical



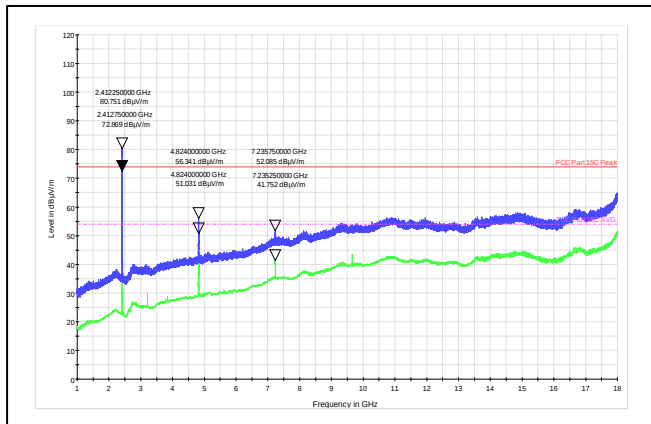
Channel Frequency: 2452MHz Polarization: Horizontal

Test Plots for Spurious Radiated emission:

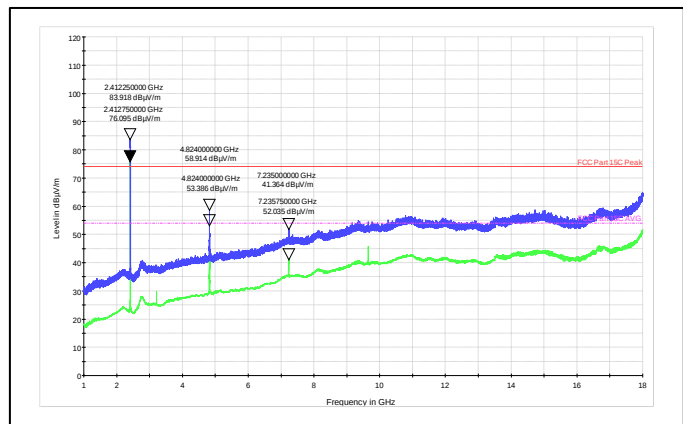
Frequency Range: 1GHz to 18GHz

Modulation: 802.11b

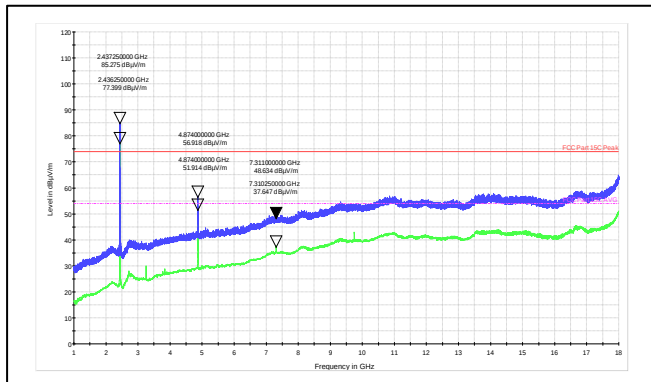
Data Rate: 1Mbps



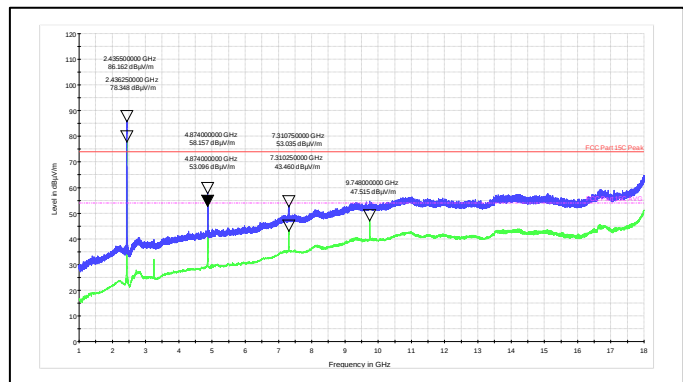
Channel Frequency: 2412MHz Polarization: Vertical



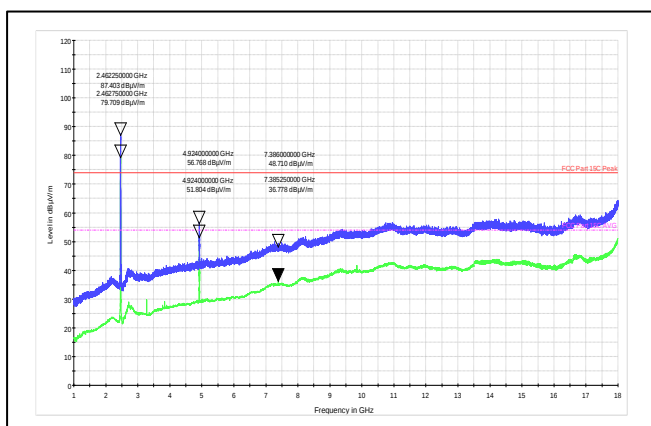
Channel Frequency: 2412MHz Polarization: Horizontal



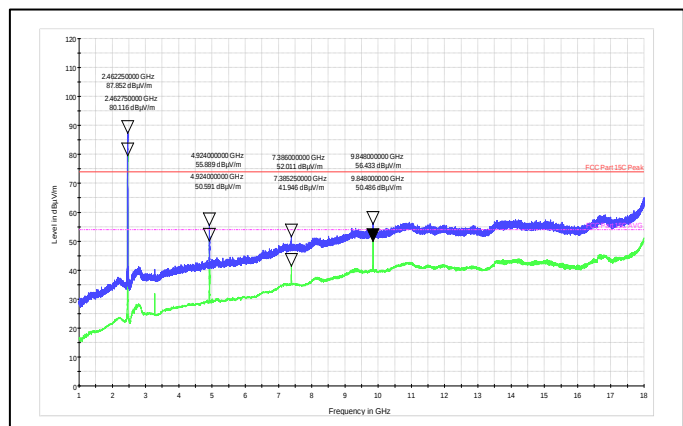
Channel Frequency: 2437MHz Polarization: Vertical



Channel Frequency: 2437MHz Polarization: Horizontal



Channel Frequency: 2462MHz Polarization: Vertical



Channel Frequency: 2462MHz Polarization: Horizontal

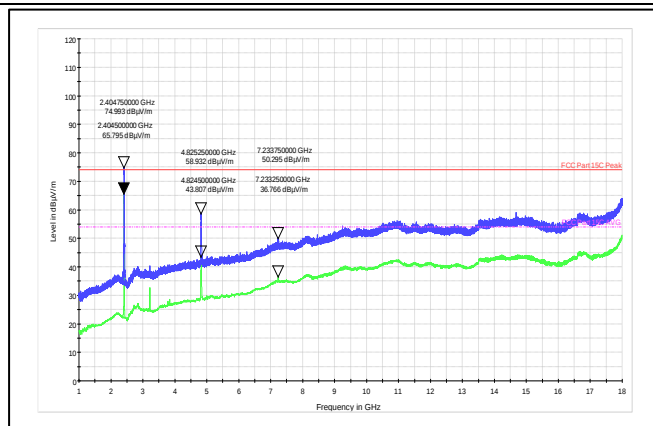
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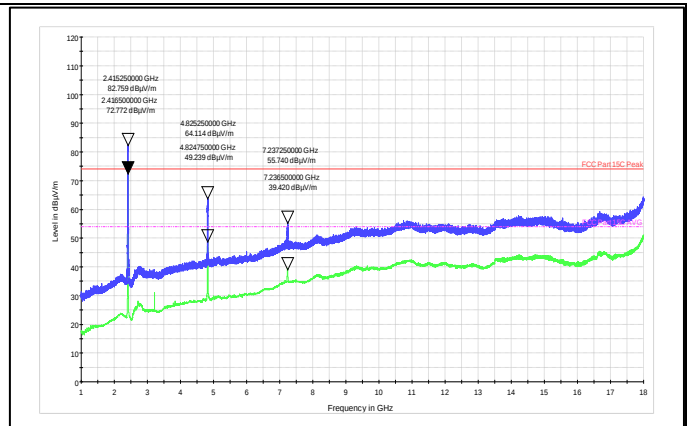
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Modulation: 802.11g

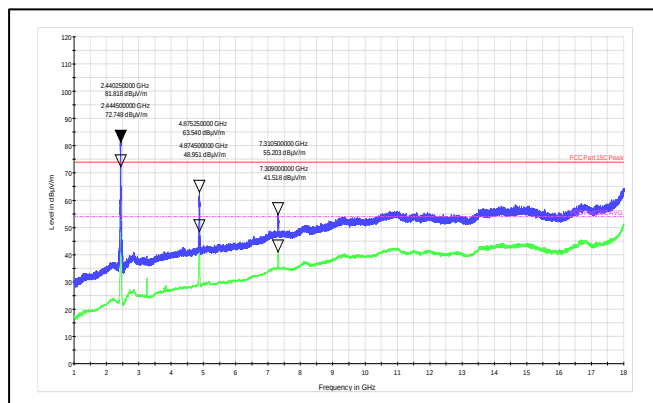
Data Rate: 6Mbps



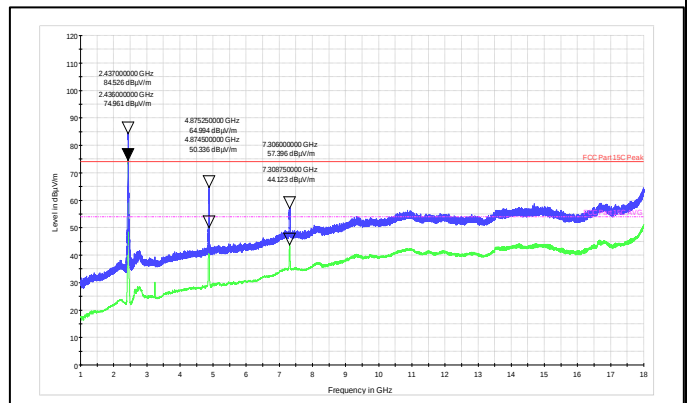
Channel Frequency: 2412MHz Polarization: Vertical



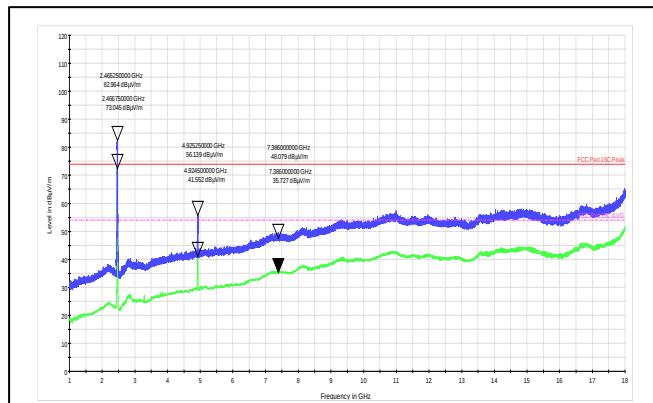
Channel Frequency: 2412MHz Polarization: Horizontal



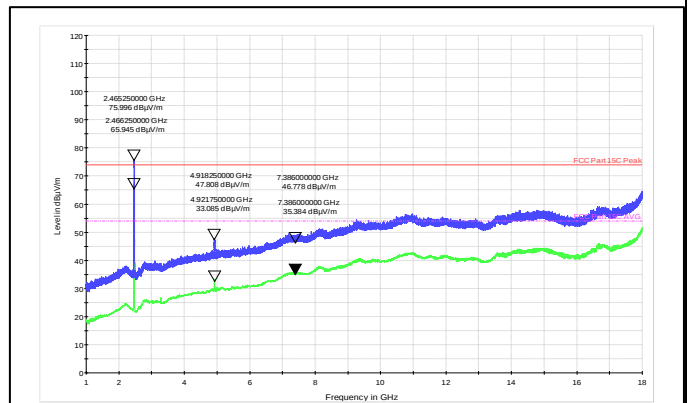
Channel Frequency: 2437MHz Polarization: Vertical



Channel Frequency: 2437MHz Polarization: Horizontal



Channel Frequency: 2462MHz Polarization: Vertical



Channel Frequency: 2462MHz Polarization: Horizontal

Prüfbericht - Nr.:

Test Report No.:

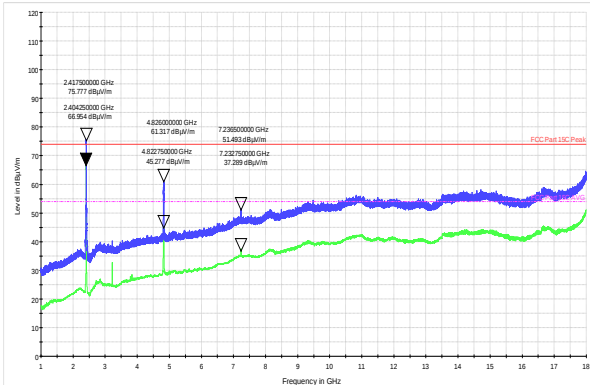
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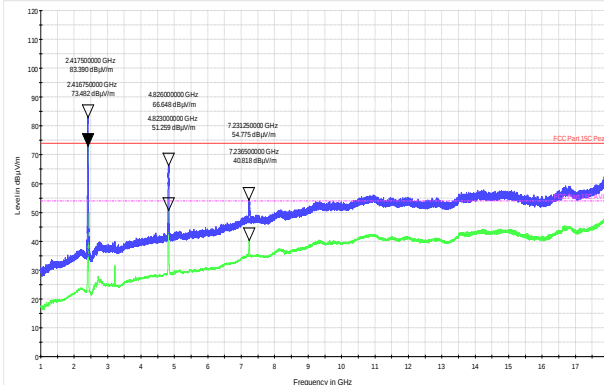
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Modulation: 802.11n-20MHz

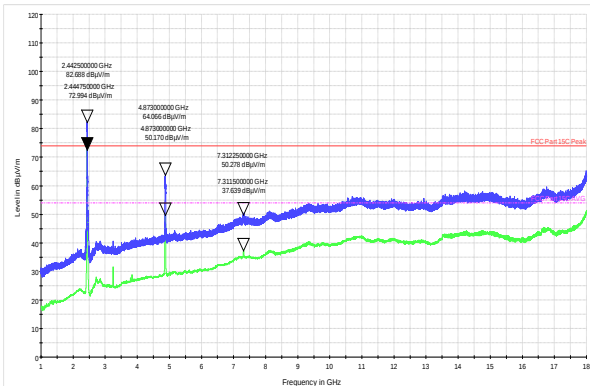
Data Rate: MCS0



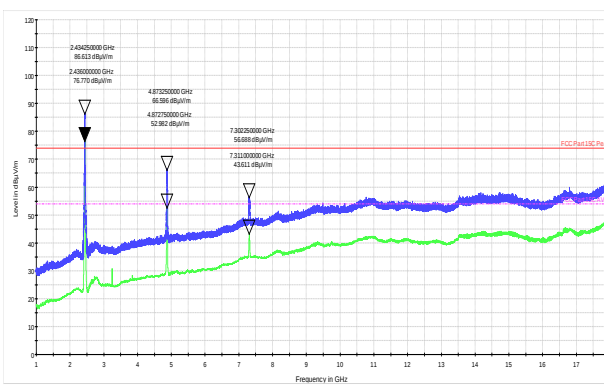
Channel Frequency: 2412MHz Polarization: Vertical



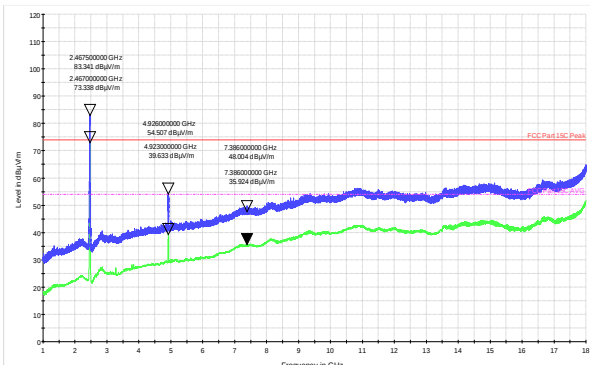
Channel Frequency: 2412MHz Polarization: Horizontal



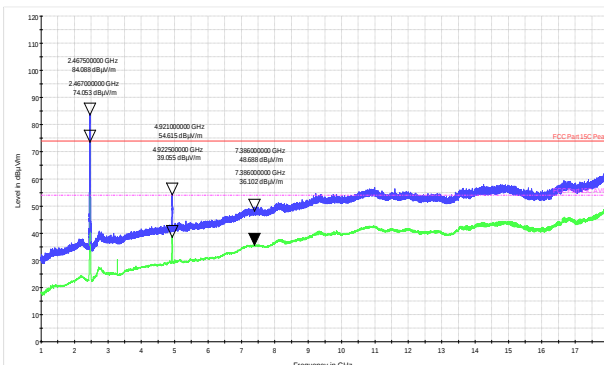
Channel Frequency: 2437MHz Polarization: Vertical



Channel Frequency: 2437MHz Polarization: Horizontal



Channel Frequency: 2462MHz Polarization: Vertical



Channel Frequency: 2462MHz Polarization: Horizontal

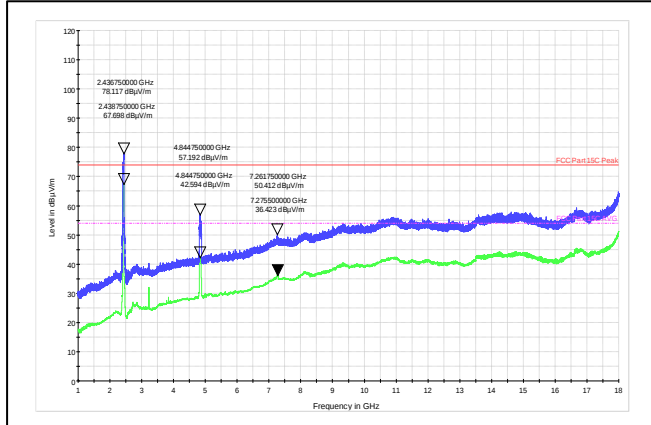
Prüfbericht - Nr.:
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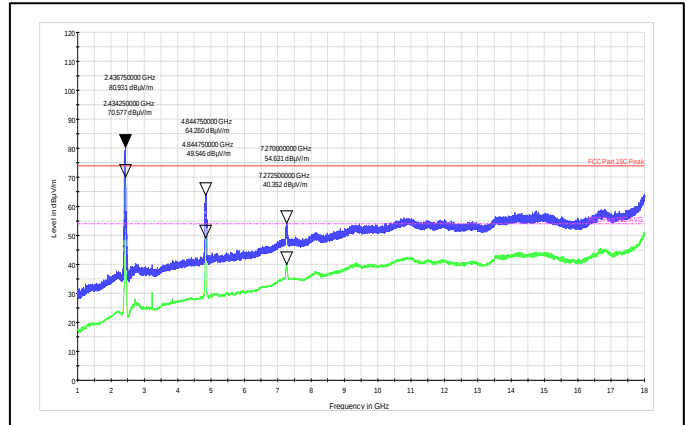
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Modulation: 802.11n-40MHz

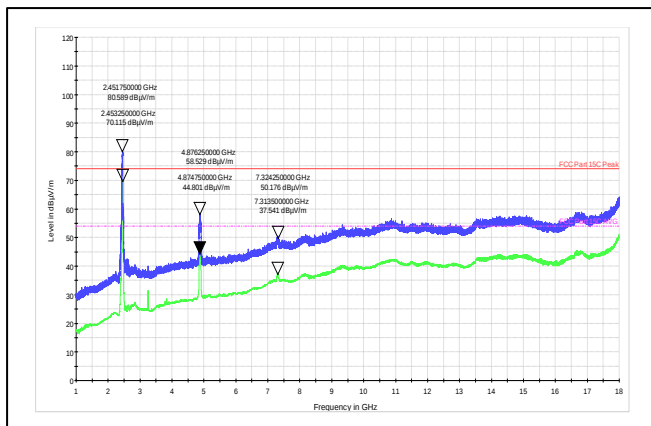
Data Rate: MCS0



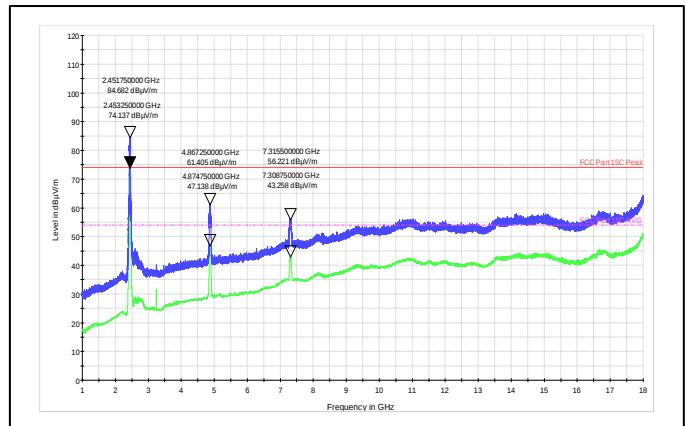
Channel Frequency: 2422MHz Polarization: Vertical



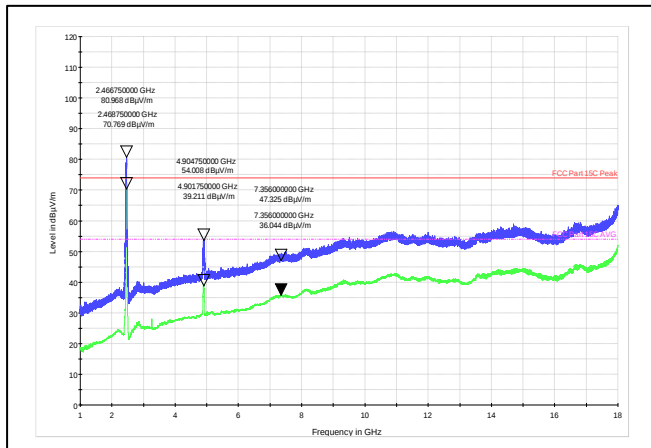
Channel Frequency: 2422MHz Polarization: Horizontal



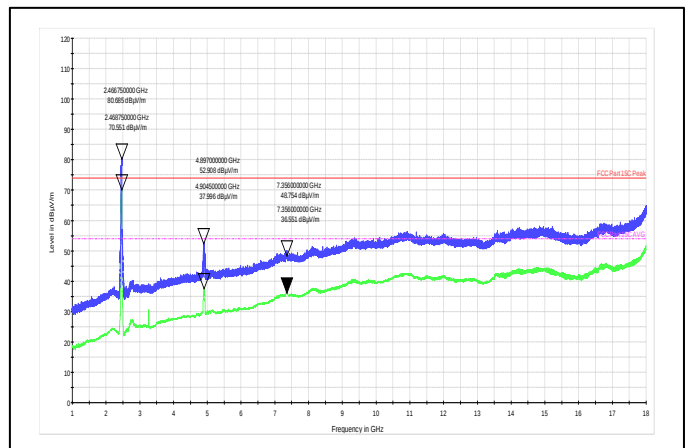
Channel Frequency: 2437MHz Polarization: Vertical



Channel Frequency: 2437MHz Polarization: Horizontal

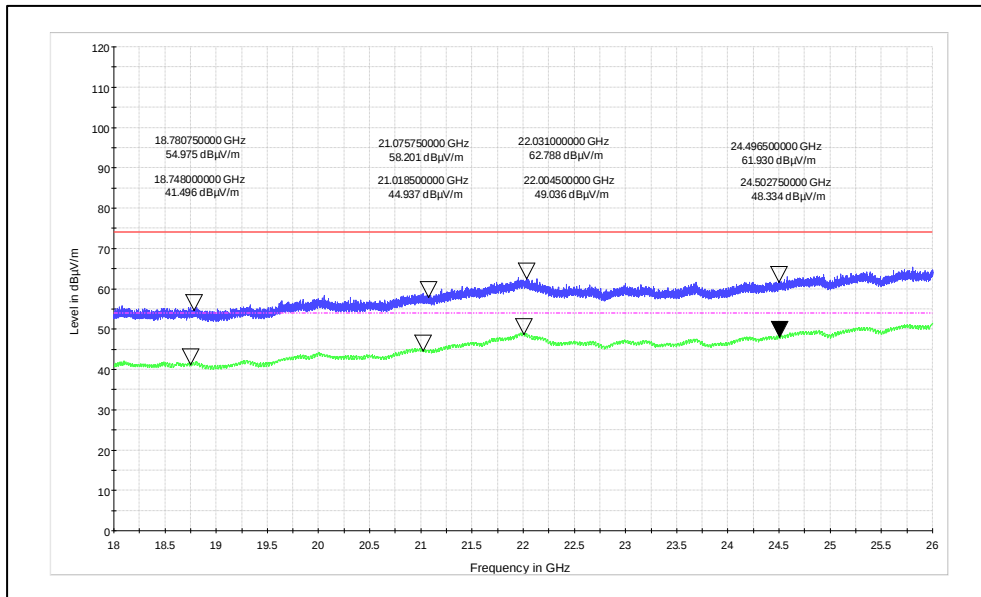


Channel Frequency: 2452MHz Polarization: Vertical

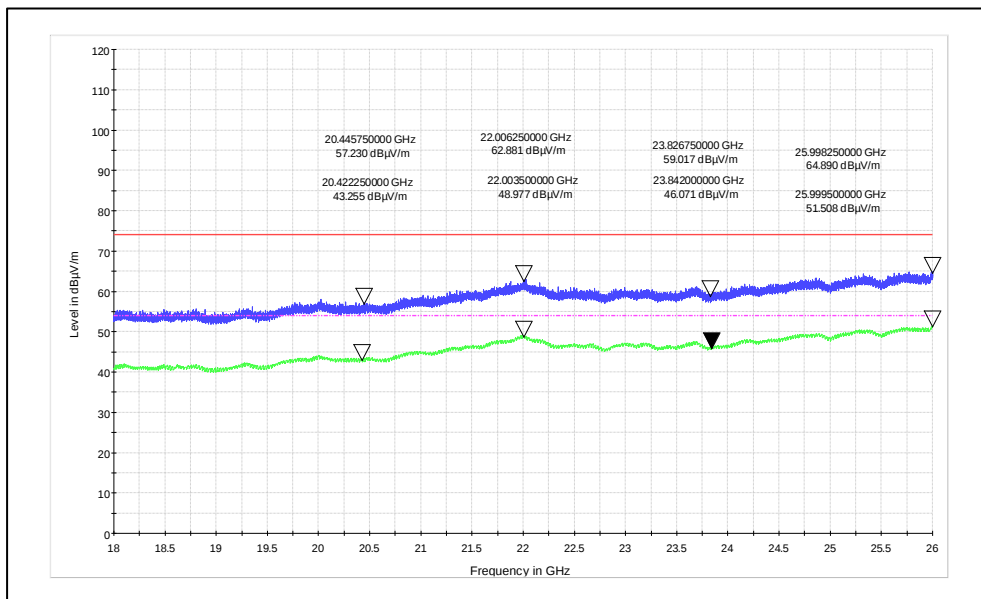


Channel Frequency: 2452MHz Polarization: Horizontal

Test Plots for above 18GHz



Antenna Polarization: Vertical



Antenna Polarization: Horizontal

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11 List of Power Table

Mode	Channel Frequency (MHz)	Attenuation (dB)	Final Power (dBm)
b Mode_1Mbps	2412	36.00	10.00
	2437	14.00	15.50
	2462	10.00	16.50
g Mode_6Mbps	2412	16.00	13.50
	2437	0.00	17.50
	2462	16.00	13.50
n Mode_MCS 0_HT-20	2412	16.00	13.50
	2437	0.00	17.50
	2462	16.00	13.50
n Mode_MCS 0_HT-40	2422	14.00	14.00
	2437	0.00	17.50
	2452	14.00	14.00

End of test report